

ADVANCES IN THE STUDY OF THE SYDNEY BASIN

1ST SYMPOSIUM

11-12 JUNE 1966

Author	Paper
McELROY, C.T.	Stratigraphy, petrography and correlation of Shoalhaven and Maitland Groups
LOUGHNAN, F.C.	The significance of analcite in the Newcastle Coal Measure sediments
REYNOLDS, M.A. and BRYAN, R.	Details on the proposed programme studies to be undertaken by the Bureau of Mineral Resources in the Sydney Basin
STUNTZ, J.	Subsurface studies in the Sydney Basin
DIESSEL, C.F.K., DRIVER, R.C. and MOELLE, K.H.	Some geological investigations into a Triassic river system in the roof of the Bulli Seam
BRANAGAN, D.F.	Aspects of Triassic sedimentation and stratigraphy
DIESSEL, C.F.K.	Notes on the geometry of the Sydney Basin at the beginning of Triassic time
First Excursion	"Mulbring - Cessnock District"

ADVANCES IN THE STUDY OF THE SYDNEY BASIN

2ND SYMPOSIUM

14, 15 and 16 APRIL 1967

Author	Paper
JOHNSON, M.	On the development and properties of coking coal seams in the Newcastle coalfield, N.S.W.
LOUGHNAN, F.C.	Some aspects of Coal Measure sedimentation in the Sydney Basin
SWAINE, D.J.	Trace elements as environmental indicators in coals of the Sydney Basin, N.S.W.
EVANS, P.R.	Review of the Permian palynology of the Sydney Basin, N.S.W.
HELBY, R.	Aspects of stratigraphic palynology in the "Triassic" of the Sydney Basin
DIESSEL, C.F.K. and MOELLE, K.H.R.	On the occurrence and origin of stone-rolls in the Bulli Seam of the Southern coalfields of N.S.W.
MCELROY, C.T.	Valley anticlines in the Blue Mountains, N.S.W.
RATTIGAN, J.H.	Diamictites of the "Gondwana" sequence in the Hunter Valley, N.S.W.
CONOLLY, J.R.	Quaternary Tasman Geosyncline off southeastern Australia
WOOD, K.G.	The Southern Coalfield; drilling programme and some aspects of the coal resources of the area
DICKSON, T.W.	Stratigraphy of the Narrabeen Group in the southern coalfields, N.S.W.
BUNNY, M.R.	The stratigraphy of the Sydney Sub-group in the southern coalfield

- AGOSTINI, A. A Magnetometer survey of the southern coalfields, N.S.W.
- ROSE, D.M. Aspects of Permian-Mesozoic sedimentation in the Dubbo-Singleton-Tamworth 1:250,000 Sheets
- PHIPPS, C.V.G. Sedimentation and structure of the continental shelf off central N.S.W.
- BRITTEN, R.A. Characteristics of the coal measures of the Hunter Valley region. Part 1 - The Tomago Coal Measures and their equivalents
- CRAPP, C.E. Characteristics of the coal measures of the Hunter Valley region. Part 2 - Some characteristics of the Greta Coal Measures with particular reference to the Balmoral area
- ADRIAN, J. Characteristics of the coal measures of the Hunter Valley region. Part 3 - The Newcastle Coal Measures and Narrabeen Group in the Tuggerah Area, N.S.W.
- GOSTIN, V.A. Sedimentology of the Permian Conjola Formation in the southern Sydney Basin, N.S.W.
- Second Excursion "Permian sedimentary rocks along the Newcastle foreshores"

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THIRD SYMPOSIUM

29, 30 AND 31 MARCH 1968

Author	Paper
CONOLLY, J.R.	An environmental model for Triassic deposition, Sydney Basin
BRANAGAN, D.F.	The Gosford Formation - Palm Beach to Long Reef
WASS, R.E.	Permian faunas and sediments from the South Marulan district, N.S.W.
GORDON, J.L. and GIBBONS, S.G.	Carbonate concretions in coastal sand dunes near Sydney
GEYL, W.F.	Geomorphological and sedimentological evidence of Quaternary tidal action in Swamp Creek Valley, near Kurri Kurri, N.S.W.
PHIPPS, C.V.G. and EMERSON, D.W.	Seismic profiling studies in the lower section of Port Jackson
WALLIS, G.R. and JOHNSON, M.	Some hydrogeological aspects of the Triassic rocks of the Sydney Basin
GRAY, N.M.	Some thoughts on the Lower Permian rocks in the lower Shoalhaven River System
MINTY, E.J.	Engineering geology of the Prospect Intrusion
BLAYDEN, I.	Jointing in the Newcastle Coal Measures of the Macquarie Syncline, N.S.W.
MOELLE, K.H.R.	On joint analyses in the Sydney Basin, N.S.W.
DIESSEL, C.F.K.	An attempt to explain the termination of late Permian coal formation in the Sydney Basin
SWAINE, D.J.	Trace elements in dirt bands in coal seams

TAYLOR, G.F.	Dolomite in coals of the Sydney Basin
BRITTEN, R.A.	Some genetic features of the Great Northern Seam of the Newcastle Coal Measures
STUNTZ, J.	Stratigraphic correlations, "Upper Coal Measures" Sydney Basin, N.S.W.
Third Excursion	"Permo-Triassic(?) conglomerates in the coastal region, south of Newcastle"

ADVANCES IN THE STUDY OF THE SYDNEY BASIN

FOURTH SYMPOSIUM

2, 3 and 4 MAY 1969

Author	Paper
DOYLE, H.A.	Seismicity and Broad Structure of the Sydney Basin
STUNTZ, J.	The Depositional and Structural Boundaries of the Sydney Basin
CAREY, S.W.	Tectonic Framework of the Sydney Basin
RUNNEGAR, B.	Permian Sedimentation in the North Sydney - South Bowen Basins
EDWARDS, D.C.	Some Aspects of the Permo-Triassic Sediments of the Sydney Basin
WARD, C.	Palaeocurrents and Petrology of the Narrabeen Group in the Southern Sydney Basin
MUMME, I.A.	The Nature and Distribution of Surface Radioactivity in the Sydney Environs
BRANAGAN, D.	The Lapstone Monocline and Associated Structures
DAY, A.A.	Geological Interpretation of Gravity Anomalies in the Southern Sydney Basin
GRAY, N.M.	Seismic Observation on the Western Margin of the Sydney Basin
GOLDBERY, R.	Permian Shelf Sedimentation, North-western and Western Sydney Basin
JOHNSON, R.D. and COOK, A.C.	The Analysis of Thickness and Quality Variations and the Possible Relation of these Variations to Seam Structure, Using Data from the Bulli Seam (Kemira and Corrimal Collieries), Southern Coalfields

SHIBAOKA, M. and SWAINE, D.J. Correlations in the Illawarra and Newcastle Coal Measures using Inorganic Constituents

GIBBONS, G.S. and GORDON, J.L.

Origin and Significance of Glendonites

McDONNELL, K.S.

The Gosford Formation in the Terrigal - Bouddi Area

SHERWIN, L.

Amphibian Footprints as an Indication of the Depth of Deposition of the Hawkesbury Sandstone

Fourth Excursion

"Carboniferous - Permian strata in the region of Raymond Terrace"

ADVANCES IN THE STUDY OF THE SYDNEY BASIN

FIFTH SYMPOSIUM

1, 2 and 3 MAY 1970

Author	Paper
NEWNHAM, I.E. (Keynote Address)	"The Better Half"
BRITTEN, R.A.	Comparison of Geological Features between the Eastern and Western Flanks of the Muswellbrook Anticline, N.S.W.
BENNETT, A.J.R. and SHIBAOKA	Variations in the Petrographic Profile of the Bulli Seam in the Illawarra Area
BRANAGAN, D.F.	Early ideas about the Geology of the Sydney Basin
BLAYDEN, I.D.	Buchanan Monocline and Associated Structures
MINTY, E.J.	Rock Weathering in the Sydney Basin
WARD, C.R.	Petrology of Narrabeen Group Sediments
BRANAGAN, D.F.	Lithology and Aboriginal Culture - Sydney Basin
DAY, R.W.	Petroleum Exploration in the Northwestern Part of the Sydney Basin
GORDON, J. and GIBBONS, G.	Iron Oxide Staining in Sandstones of the Sydney Area
MOELLE, K.H.R.	On Joint Analyses in the Sydney Basin - Part 2
RITCHIE, A.S. and WARNE, S.St. J	An Intra-basaltic Mud Flow Breccia at Murrurundi Gap - A Preliminary Report
VAN BRAKEL, A.	Palaeocurrent Studies in the Seaham Formation and its Equivalents in the Hunter Valley
Fifth Excursion	Some Geological Aspects of the Tomago Coal Measures West of N'cle



ADVANCES IN THE STUDY OF THE SYDNEY BASIN

SIXTH SYMPOSIUM

30 APRIL, 1 AND 2 MAY 1971

Author	Paper
CALLCOTT, DR T.G. (Keynote address)	An Appraisal of the Significance of the Sydney Basin
TAYLOR, G.H.	Some Observations on the Formation of Volcanic Breccias in the Sydney Basin
BOESEN, R.S. and RITCHIE, A.S.	The Structure and Petrology of Warrawolong
O'REILLY, S.Y.	Basaltic Rocks from the Moss Vale - Mittagong Area
ALBANI, A.D., CARTER, A.N. and JOHNSON, B.D.	A Study of the Bedrock in Jervis Bay, N.S.W.
ALBANI, A.D. and JOHNSON, B.D.	Pleistocene Geomorphology of of Broken Bay, N.S.W.
BRANAGAN, D.F.	Ripples and Megaripples in the Hawkesbury Sandstone
WOOTTON, P.P.	Magnetic Properties in the Stanwell Park - Appin Part of the Sydney Basin
BENNETT, A.J.R., SHIBAOKA, M. and SMYTH, M.	Sedimentary Structure of the Bulli Seam in the Northern Part of the Southern Coalfield
BROOKS, J.D.	The Use of Coals as Indicators of Oil and Gas in the Sydney Basin
LOUGHNAN, F.C.	Kaolinite Claystones in the Sydney Basin
BAXTER, G.W.	Weathering of Coal Measure Shales
GRAY, N.M.	Accelerated Weathering of Sediments
BLAYDEN, I.D.	Bedding Plane Faults and Associated Structures in the Coal Measure Rocks of the Newcastle and East Maitland Coalfields
MAYNE, S.J. and NICHOLAS, E.	Contributions to the Stratigraphy of the Sydney Basin

McKELVEY, B.C., McCLUNG, G.R. Nowra - Muree Sands - Definition  
and RUNNEGAR, B. Internal Morphology and Age

Sixth Excursion

Aerial Inspection of the Northern  
Margin of the Sydney Basin and  
the Carboniferous Structures  
between the Hunter Thrust and the  
Gloucester Syncline

ADVANCES IN THE STUDY OF THE SYDNEY BASIN

SEVENTH SYMPOSIUM

26-28 MAY 1972

Author	Paper
SIR GARFIELD BARWICK (Keynote Address)	Landscape Conservation and Rehabilitation in a Highly Developed Region
PACKHAM, G.H. and EMERSON, D.W.	Geological and Geophysical Aspects of Recent Drilling in the Central Sydney Basin
SWAINE, D.J.	The Weathering of a Siltstone
MOSHER, K.G.	The Sydney Basin - Another Look
SAPPAL, K.K.	Petrographic Variations of the Wongawilli Seam Coal, New South Wales
BENNETT, A.J.R., SHIBAOKA, M. and SMYTH, M.	Rank Variation of Coals in the Southern Coalfield and its Geological Significance
MOELLE, K.H.R. and HALLINAN, G.P.	On Structural Investigations in the Macquarie Syncline, N.S.W.
McCLUNG, G., HERBERT, C. and HELBY, R.	Aspects of the Sedimentology and Palaeontology of the Cranky Corner Basin, N.S.W.
HARMAN, P.G., EMERSON, D.W. and SMITH, M.J.	A Synthetic Seismogram from the Dural Well Central Sydney Basin
TWIST, R.F.	Jervis Bay - A Collapse Structure?
GIBBONS, G.S. and GORDON, J.L.	Glendonites: Further Investigations
RUDD, G.W.	On the North-Western Margin of the Sydney Basin
ELLYETT, C.D. and MOELLE, K.H.R.	Structural and Thermal Analyses in the "Burning Mountain" area, N.S.W.
McKELVEY, B.C. and McCLUNG, G.R.	The Nowra and Muree Sands
Seventh Excursion	Nobby's Tuff, Murdering Cully

ADVANCES IN THE STUDY OF THE SYDNEY BASIN

EIGHTH SYMPOSIUM

27-29 APRIL 1973

Author	Paper
OFFLER, R.	Low Grade Metamorphism in Carboniferous Rocks North of Newcastle
DIESSEL, C.F.K.	Phytoclast Reflectance in Low Grade Metamorphic Rocks of the Carboniferous North of Newcastle
JOHNSON, K.R.	Structure-Thickness Relationships in the Moon Island Beach Sub-Group, Newcastle Coal Measures, New South Wales
HERBERT, C.	A Sedimentological Appraisal of the Wianamatta Group
ADAMSON, C.L.	The Approaching Geological Resources Crisis in the Sydney Basin
LOUGHNAN, F.C., HIGGINS, M.L. ARDITTO, P.	The Permian-Mesozoic Succession of the Merry-Goen-Nielrex-Digilah Area, North West Sydney Basin
GIBBONS, G.S. and GORDON, J.L.	"Origin of Pumice Along Sydney Coastline"
BRANAGAN, D.F.	A Skin Problem on Cold Shoulders
Eighth Excursion	Catherine Hill Bay

ADVANCES IN THE STUDY OF THE SYDNEY BASIN

NINTH SYMPOSIUM

5-7 APRIL 1974

Author	Paper
COOK, A.C.	Aspects of Coal Rank Variation in the Sydney Basin
TAYLOR, G.H.	Where Have all the Hydrocarbons Gone?
DAVEY, B.G. and CHRICHTON, J.R.	The Nature of the Surfaces of Quartz Grains in the Wianamatta and Hawkesbury Rocks
THOM, B.G. and ROY, P.	Sedimentary Environments of Quaternary Age Near Port Stephens
FRANKEL, J.J.	Water-Faceted Pebbles in Sediments Along the South Coast of New South Wales
LOUGHNAN, F.C.	Correlations with the Greta Coal Measures in the Hunter Valley and Gunnedah Basin
HOWELL, D.J.	Permian Deltaic Sedimentation Western Coalfield Sydney Basin
BELL, S. CORKERY, R. and KEMP, P.	Origin of the Permian Sequence, near Dunedoo, N.S.W.
WARD, C.R.	Clay Minerals in Sydney Basin Coals
GIBBONS, G.S. and GORDON, J.L.	Some Geological Observations at Long Reef
DAVEY, B.G.	The Clay and Iron Oxide Minerals in Soils Developed on Wilanamatta Shales
WARNE, S.St.J.	Differential Staining and Mineralogy
MOELLE, K.H.R.	On Some Engineering Geology Problems in the Newcastle N.S.W. Area
RANDLE, G.J.	Roadmaking Materials Within the Northern Part of the Sydney Basin
Ninth Excursion	BMG Quarries, Raymond Terrace

ADVANCES IN THE STUDY OF THE SYDNEY BASIN

TENTH SYMPOSIUM

11-13 APRIL 1975

Author	Paper
HERBERT, C.	Evidence for Glaciation in the Sydney Basin
DOYLE, J., GYE, S., HARMAN, P. and REED, H.	Stratigraphic Correlation Aided by Borehole Geophysical Logging in Southern Coalfield, N.S.W.
QURESHI, I.R.	The Crust Beneath the Sydney Basin
BLAYDEN, I.D. and LEITVCH, E.C.	Sydney Basin - New England Fold Belt Relationships
WALLACE, I.	A Review of the Low Cost Extractive Resources in the Central Coast Region of New South Wales
GOLDBERRY, R. and LOUGHNAN, F.C.	Dawsonite, Alumohydrocalcite, Nordstrandite and Gorceixite in the Shoalhaven Group of the Sydney Basin
RETAILACK, G.J.	Triassic Palaeosols in the Upper Narrabeen Group of New South Wales
GIBBONS, G.S. and WARD, C.R.	Weathering of Sydney Sandstone in Building Stone and Outcrop
PLOWMAN, D.J. DAVEY, B.G. and NOCKOLDS, C.E.	Weathering Processes in an Ancient Sand Dune at Agnes Banks, N.S.W.
BENNETT, A.J.R., SMYTH, M and SHIBAOKA, M.	A Decade of Coal Petrology in the Sydney Basin
DOLANSKI, J.	The Occurrence of Native Copper in the Narrabeen Group
MAYNE, S.J.	A Quarter of a Century of Bureau of Mineral Resources Research in the Sydney Basin
BRANAGAN, D.F.	Further Thoughts on the Lapstone Structure

MORRIS, L.N.

Floras Immediately Underlying the  
Glossopteris Flora - Eastern Aust

RANDLE, J.

Some Environmental Problems  
Associated with the Working of  
Quarries and Gravel Pits

RETAILLACK, G.J.

The Permo-Triassic Macro-Floral  
Succession in the Sydney Basin

Tenth Excursion

New Lambton Heights

ADVANCES IN THE STUDY OF THE SYDNEY BASIN

ELEVENTH SYMPOSIUM

6-9 MAY 1977

Author	Paper
SWAINE, D.J.	Environmental Aspects of Trace Elements in Sydney Basin Coals
VITNELL, B.W. and WOOTTON, P.P.	The Commercial and Mining Geology of the J.A.B.A.S. Warkworth Exploration Area
STUNTZ, J.	The Lesser Known Coal Deposits in New South Wales
BROWNLOW, J.W.	Structural and Tectonic Framework of the N.S.W. Portion of the Sydney-Bowen Basin
NALAYE, A.M. and QURESHI, I.R.	A Geophysical Study of the North-Eastern Part of the Sydney Basin
RETALLACK, G.	The Story of Permian and Triassic Vegetation in the Sydney Region
GYE, S.J., DOYLE, J.F. and READ, H.W.	Igneous Intrusions in the Dendrobium area of the Southern Coalfield of New South Wales
MUMME, I.A.	Seismic Risk Analysis of the Lucas Heights Area
GOBERT, V.	Cainozoic Sediments in the Penrith-Windsor Area
CHAN, K.Y., DAVEY, B.G. and GEERING, H.R.	Use of a Valley in Hawkesbury Sandstone for Disposal of Household Wastes
LY, C.K.	Model of Sand Deposition in the Newcastle Bight
BROWNLOW, J.W.	Stratigraphic Subdivision of the Early Permian Coal Measures in the Boggabri Area and Regional Implications
BRANAGAN, D.F.	Faults in the Hawkesbury Sandstone
KUMAR, A. and QURESHI, I.R.	Geophysical Studies in the Dungog-Gloucester Region and their Geological Significance



WILLIAMS, W.A.

Investigations into the Point  
Loading Technique for Determining  
Weakness Directions in Coal Seam  
Roof Strata

WILLIAMS, R.J.

Structural Analyses at Stockton  
Borehole Colliery and their  
Application to Mining Operations

RAWLINGS, C.D. and  
MOELLE, K.H.R.

On Sedimentary Dykes in the  
Aberdare East Colliery Holding

Eleventh Excursion

Outcrops of the Merewether  
Conglomerate in the Newcastle  
Area and an Underground  
Inspection of BHP Burwood  
Colliery

ADVANCES IN THE STUDY OF THE SYDNEY BASIN

TWELFTH SYMPOSIUM

5-7 MAY 1978

Author	Paper
BRITTEN, R.A. and TAYLOR, G.H.	The Occurrence and Significance of Coking Coal Dyke Within the Singleton Coal Measures of New South Wales
BOS, F. and AGRALI, B.	The Application of Geology in Longwall Mining at South Bulli Colliery
CREASEY, J.F., HUNTINGTON, J.F. and SHEPHERD, J.	Prediction of Bad Coal Mining Conditions in Sydney Basin Coalfields
WARBROOKE, P.R.	Geochemical Evidence for Marine Influenced Sedimentation in the Newcastle Coal Measures
NOLAN, R.C.	The Role of Consultants in the Coal Geology of the Sydney Basin
RICHARDS, K.A. (Keynote Address)	What is a Reserve?
HENSON, B.J. and GRAY, D.R.	Clinohypersthene and Hypersthene from a Coalfire Buchite near Ravensworth N.S.W.
JEFFRIES, F.S.	New England Tectonics in a World Perspective
BLAYDEN, I.D.	Wrench Faulting in the Northern Sydney Basin
CARR, P.F. and FACER, R.A.	Dating of Extrusive and Intrusive Igneous Rocks of the Southern Sydney Basin
PARTRIDGE, A.D., BENSON, J.M. and BELL, D.	Unwrapping Little Bay
BROWNLOW, J.W.	Late Carboniferous and Permian Palaeogeography of Western New England
LOUGHNAN, F.C. and RAY, A.S.	The Reid's Mistake Formation at Swansea Heads

- MacGREGOR, J.P. and  
BRISCOE, G. Claystones of the Eraring Area;  
Engineering Performance
- WOOTON, P. Claystones of the Southern Lake  
Macquarie Area - Effects of  
Underground Coal Mining
- ANDERSON, J.L. and  
SLANSKY, E. Swelling Claystones from the  
Eraring Area (Newcastle Coal  
Measures); Chemical and  
Mineralogical Properties
- GLEN, R.A. Aspects of the Geology of the  
Woodsreef Serpentinite
- WILLIAMS, A.J. Structural Analysis of  
Serpentinites, Peel Fault System,  
Glenrock Station, N.S.W.
- OFFLER, R. Chemistry and Tectonic Setting of  
L. Devonian and Ordovician-  
Silurian (?) Meta-Volcanics,  
Glenrock Station, N.S.W.
- MORRIS, N. A Stratigraphical Basis for the  
Mapping of the Hastings Block
- WRIGHT, A.J. Some Devonian Tetrocoral Faunas  
from New England
- Twelfth Excursion Newcastle Coal Measures

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THIRTEENTH SYMPOSIUM

4-6 ,MAY 1979

Author	Paper
HAMILTON, L.H.	Char Petrology in Relation to the Agglomeration Problem in Coal Liquefaction
SHIBAOKA, M.	Application of Coal Microscopy in Relation to Coal Hydrogenation Experiments
DIESSEL, C.F.K.	The Petrography of Insoluble Residues Derived from the Hydrogenation of Coals of Varying Ranks
SWAINE, D.J.	Trace Element in Coal and the Geochemical Cycle
BRADSHAW, A.V. (Keynote Address)	"The Present State of the Art of Coal Liquefaction"
GUYOT, R.E.	Report of the Results of the I.C.C.P. Exercise 1978 (Ring Analysis I and II)
SMYTH, M.	Report on the Results of the Ring Analysis Organised by the Standing Committee on Coalfield Geology of N.S.W.
HILLEARD, P.R.	Geological Aspects of Track Maintenance in Railway Tunnels near Lithgow
MOELLE, K.H.R.	On the Need for a Building Ordinance and Code for the Newcastle Area
FRENCH, D.H., GAMBLE, J.A. and NASHAR, B.	Petrological and Petrochemical Studies of Alkaline Basic Intrusives in the Mount Arthur and Gunnedah Regions
HAMILTON, L.H.	Intrusive Breccias in N.S.W. Coal Seams
HERBERT, C. and CRAWFORD, E.	Sydney Basin Diatremes and Maar Volcanoes

CORKERY, R.

Underground Liquid Waste Disposal  
and its Feasibility within the  
Sydney Region

GIBBONS, G.S. and  
GORDON, J.L.

Geology of Historic Buildings

Thirteenth Excursion

Inspection of the geology and  
mining operations at the Costain  
Ravensworth No. 2 Open Cut Mine

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FOURTEENTH SYMPOSIUM

2-4 MAY 1980

Author	Paper
WILLIAMS, W.A., LINDSAY, G.A. McCRACKEN, K.G., MAHER, B. and COWARD, D.	The Stratasnoop
BOS, F.	The Influence of Igneous Intrusions on Extraction of the Balgownie Seam in the Southern Coalfield
MIDDLETON, M.F. and BENNETT, A.J.R.	Post-Depositional Tectonics of the Sydney Basin from Vitrinite Reflectance
LYNCH, G.J. (Keynote Address)	Energy Overview and Initiatives
HUNT, J.	Development of the Coal Resource and Planning for Growth in the Upper Hunter Sub-Region
HEWITT, J., SUINE, P. and CASTLE, M.	Mining Subsidence in Relation to Roadway Construction and Design in the Sydney Basin
SMYTH, M.	Ring Analysis for the Standing Committee on Coalfield Geology of N.S.W.
TURNER, R.	Dykes and Faults in the Newcastle Coalfield - a Headache to Mining
GALE, W.J.	Palaeostress Systems and Deformational Events in the Lower Hunter Valley
DAY, J.C. and JONES, R.H.	Rank Measurement of Coal from the Wittingham Group
WILLIAMS, R.J.	Directional Roadway Stability in the Newcastle Coalfield - An Interpretation
LOUGHNAN, F.C. and ROBERTS, F.I.	Combustion Metamorphism at Burning Mountain, Wingen

QURESHI, I.R.

Density and Distribution of Young  
Sediments in the Woy Woy District  
of New South Wales, as derived  
from a Gravity Survey

CORKERY, R.W.

Weathering of Hawkesbury  
Sandstone Shale Lenses -  
Implications for Ceramic  
Evaluation

BRANAGAN, D.F.

Blowing Their Cover

Fourteenth Excursion

"Buchanan Tunnel Re-visited"

ADVANCES IN THE STUDY OF THE SYDNEY BASIN

FIFTEENTH SYMPOSIUM

1, 2 AND 3 MAY 1981

Author	Paper
LAVERING, I.H.	Anatomy of an Early Triassic Braided Stream System, Southern Sydney Basin
CONAGHAN, P.J., JONES, J.G. McDONNELL, K.L. and ROYCE, K.	Fluvial Sedimentation in a Foredeep Context: Late Permian and Triassic Sydney Basin
BROWNLOW, J.W.	A Thermal Model for the Origin of the Sydney and Gunnedah Basins
ROSE, G. (Keynote Address)	Future Prospects for Coal Resource Development in New South Wales
ARDITTO, P.A.	A Study of the Jurassic Pilliga Sandstone in the Southeastern Surat Basin, New South Wales
HAMILTON, L.H.	K-Ar Age Determinations of some Igneous Rocks from the Newcastle and Hunter Valley Coalfields
QURESHI, I.R.	New Gravity Measurements over the Western Flank of the Sydney Basin
GOODWIN, P.W.	Early Open Cut Exploration in the Foybrook Area, Hunter Valley, N.S.W.
DAVIS, R.	Application of Geology to Open Cut Coal Mining
WRIGHT, J.A.	The Relationship of Geology to Mine Design at Glendell Project
STODDART, F.	B.H.P. Saxonvale Mine Geological Investigations for a Deep Open Cut Pit
MEMBERS OF THE AMATEUR GEOL SOCIETY HUNTER VALLEY	A Preliminary Report on the Structure and Petrography of Mount Yengo
BRAKEL, A.T.	Basement Lithologies Below the Sydney Basin
HUNT, J.W.	Petrographic Correlation of Sydney Basin Coals



MIDDLETON, M.F.	Coal Rank and Organic Diagenesis Studies in the Gunnedah Basin
SANDERS, R.H.	A Standardised Approach to the Evaluation of Hard Coal Deposits using Borehole Techniques
WARD, C.R.	Mineralogy and Weathering Characteristics of Coal Washery Refuse from the Sydney Basin
BRANAGAN, D.F. and MOELLE, K.H.R.	Old Mine Workings in the Yard Seam at Newcastle, N.S.W.
Fifteenth Excursion	Exploration Trench - BHP Saxonvale Colliery Broke

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SIXTEENTH SYMPOSIUM

30 APRIL, 1-2 MAY 1982

Author	Paper
CONAGHAN, P.J.	Lacustrine (Gilbert) Deltas in the Permian Coal Measures of Eastern Australia and India: Implications for the Widespread Hydroponic Origin and Deep-water Diagenesis of Gondwanan Coals
CAMERON, R.G., CONAGHAN, P.J. and PARBURY, C.F.R.	Piedmont Depositional Regimes within the Ravensworth Alluvial Embayment: Wittingham Coal Measures, Northern Sydney Basin
MARCHIONI, D.	Fluvial Sedimentation in the Foybrook Formation, Wittingham Coal Measures
WARBROOKE, P.R. BAKER, C.K. DAY, J.C. and JONES, R.H.	Coal Quality Variations from the Marine-Terrestrial Transition in Permian Coals of the Lower Hunter Valley
HARRINGTON, H.J. (Keynote Address)	Tectonics and the Sydney Basin
MAUGER, A.J., FINLAYSON, A.A. HUNTINGTON, J.F. and SHEPHERD, J.	The Surface Characteristics of Three Meridional Fault and Joint Zones of the Sydney Basin
MOELLE, K.H.R.	On a Comparison between Fracture Patterns in the Ulan and Home Rule Areas, N.S.W.
RAWLINGS, C.D. and MOELLE, K.H.,R.	The Lochinvar Structure: Not Just an Anticline
BRANAGAN, D.F. and PEDRAM, H.	The Lapstone Structures - Once Again
MORRIS, W.O.	An Interpretation of the Stratigraphy of the Muswellbrook Area
SHARROCK, G.N.	Geology and Exploration of the Bayswater No. 2 Mine Area

- BUTEL, S. Stratigraphy of the Greta Coal Measures in the Drayton Area and its Influence on Mine Development
- BRANAGAN, D.F. Warragamba Water for Sydney - 1872, The Year of Decision
- POLLINGTON, M. Overburden Analysis from the Wittingham and Greta Coal Measures
- DAY, D. Hydrogeomorphic Impact of Coal Mining, Hunter Valley, N.S.W.
- BRAKEL, A.T. Stratigraphic Correlation of the Upper Coal Measures of the Sydney Basin with their Equivalents in the Bowen Basin
- LAU, J. A Reservoir Quality Assessment of Some Sydney Basin Sandstones
- BEMBRICK, J. Geology of the Mount Arthur North Area - An Important Coal Resource for Power Generation in N.S.W.
- WEBER, C.R., BECKET, J. and HAMILTON, D.S. Recent Exploration in the Gunnedah Basin by the Department of Mineral Resources
- PRESTON, B. and WOOTTON, P. The Mining History and Sedimentation of the Tomago Coal Measures in the East Maitland Area
- COIN, C.D.A. and CRAWFORD, D.P. Petrography of Coal - Coke in the Blast Furnace
- WARNE, S.St.J. and FRENCH, D.H. Thermal Analysis of Coal, with Particular Reference to Mineral Constituents
- DIESSEL, C.F.K. Reactive Inertinite
- JONES, R.H. Slim Core Testing for Maximum Coal Project Information
- SANDERS, R. Australasian Seam Bulk Sampling Down a Narrow Shaft
- Sixteenth Excursion Inspection of the Greta Coal Measures in the Muswellbrook area

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SEVENTEENTH SYMPOSIUM

29-30 APRIL, 1 MAY 1983

Author	Paper
MASON, D.R. and DAVIS, R.W.	Geology and Mineral Chemistry of Fused Shales within the Overburden Strata of the Liddell Seam near Bowmans Creek, N.S.W.
DICKINS, J.M.	Climate of the Sydney Basin and Environs in the Carboniferous, Permian and Triassic
MUMME, I.A. and McLAUGHLIN, R.	Characterization of Some Strong Motion Earthquakes in the Sydney Basin Region
BLACKWOOD, R.L.	Stress Versus Depth in the Sydney Basin
BRANAGAN, D.F. (Keynote Address)	Summing Up of the Sydney Basin
BAILEY, J.	Suggested Modifications to the Stratigraphic Nomenclature of the Singleton Super-Group
HUNT, J. and TELFER, A.	Coal Quality and Geological Setting, Western Coalfield, Sydney Basin
UREN, R.	Facies and Sedimentary Environments of the Wittingham Coal Measures near Muswellbrook, N.S.W.
BRADLEY, G. and MOLONEY, J.	Structural Control of Sedimentation of the Coal Measures in the Rylstone Area
BUTEL, D. et al	Maules Creek - An Interesting Coal Deposit
FREDERICKS, P.	Fourier Transform Infra-Red Spectroscopy of Coals and Torbanites
HUNT, J.W., BRAKEL, A.T. and HARRINGTON, H.J.	Coal Quality and Geological Setting in the Early Permian Sydney and Gunnedah Basins

- WATSON, P.S. A New Fossil Fish Discovery in the Triassic of the Sydney Basin: Preliminary Findings
- SHIELS, O. A Coal Resource Data System
- LAVERING, I.H. Diversity, Structure and Composition of Some Early Carboniferous Benthic Marine Faunas in the Southern Tamworth Shelf
- WARBROOKE, P. Natural Oxidation of Coal
- STARR, D.C. and HARVEY, J.P. A Preliminary Investigation for the Reconstruction of the New England Highway over the Liverpool Range
- GATES, G.W.B. and KALF, F.R. The Effects of Coal Mining on the Hydrogeology/Hydrochemistry of the Upper Hunter Valley
- LAVERING, I.H. Sedimentology of the Early Flagstaff Sandstone
- TURNER, R. and WARNER, R. Macquarie Colliery, Young Wallsend Seam, An Analysis of Stress Relief Mining
- RICHIE, A.S. and EVANS, R. A Preliminary Report on Igneous Activity North of Mt Yengo, N.S.W.
- WILLIAMS, R.J. and GIEDL, J. Relationship between seam Gas Parameters and Geology
- QURESHI, I.R. The Longitudinal Gravity High Over the Sydney Basin and its Geological Significance
- JOHNSTONE, M.A., LUXFORD, J.S. and MOELLE, K.H.R. Geological Observations and Mining Considerations at Ulan, N.S.W.
- COENRAADS, R. Origin of the Coastal Valleys in the Sydney Region
- ETHERIDGE, L. Petroleum Source Rock Studies in the Gunnedah Basin
- CREELMAN, R.A. The Significance of Sulphide Pseudomorphing Wood in Sandstones
- SMYTH, M. Hydrocarbon Source Rocks in the Sydney and Gunnedah Basins

SKILBECK, G. and  
BRADLEY, G.

Preparation of a Photographic Guide  
to the Cored Rocks of the Sydney  
Basin

Seventeenth Excursion

Inspection of outcrops along the  
coastline between Merewether and  
Swansea

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EIGHTEENTH SYMPOSIUM

28 APRIL TO 1 MAY 1984

Author	Paper
HARRINGTON, H.J. BRAKEL, A.T. and HUNT, J.W.	Sedimentation and Tectonics in the Permian Coal Basins of Eastern Australia
DICKINS, J.M.	History of Research on Hunter "Lineament"
FLOOD, P.G.	Application of Process Sedimentology in Solving Geological Problems within Several Australian Coal Basins
MARTINI, I.P. and GLOOSCHENKO, W. (Keynote Address)	Cold Climate Environments of Peat Formation in Canada
HOLDGATE, G.	Latrobe Valley Brown Coals - Their Geometry and Facies Equivalents as a Guide to their Depositional Environment
HUNT, J.W.	Depositional Environment, Maceral Composition and Sulfur Content and Composition of Permian Coals of Eastern Australia
WARBROOKE, P.R.	Coal Forming Environments in the Greta, Tomago and Newcastle Coal Measures
MORRISON, K.C., BACON, C.A.	Coal Forming Environments of Upper Triassic Black Coals in the Tasmanian Basin: A Comparison Between the Fingal and Langloh Areas
BECKETT, J. and McDONALD, I	The Depositional Geology of the Jerry's Plains Subgroup
DICKINS, J.M.	Correlation of the Marine Permian Formations of the Sydney Basin
HANES, J.	Anisotropic Stress and Mining Strain at Leichhardt Colliery, Blackwater, Central Queensland

- BOS, F. Wireline Log Coal Quality Predictions as Applied during the Various Stages of Coal Exploration Programmes
- SULLIVAN, T.D. and BURMAN, B.C. The Relationship between Geological and Geotechnical Aspects of Coal Mining in Australia
- SULLIVAN, T.D. Identification and Geotechnical Significance of Defects in Coal Measure Rock Core
- WARD, R.C., COMINO, J. and WESTERMAN, M. Systematic Description of Non-Coal Strata in Bore Cores, Western Coalfield, N.S.W.
- HATHERLY, P.J. and HOLT, G.E. Progress in In-Seam Seismic Research at A.C.I.R.L. Ltd
- MALLET, C.W. and DUNBAVAN, M. Peat Compression and the Formation of Discordant Beds in Coal Measures
- GEORGE, A.M., BROCKWAY, D.J. STACEY, W.O. and KISS, L.T. The Origin of Minerals, Inorganics and Sulphur in Brown Coals
- MACKAY, G.H., GEORGE, A.M. ATWOOD, D.H. and GAULTON, R.J. The Cyclic Occurrence of Brown Coal Lithotypes
- YOO, E.K., WEST, P. and BRADLEY, G. Stratigraphy and Coal Measures of the Late Permian Illawarra Coal Measures in the Northern Part of the Western Coalfield
- THOMSON, S. and FLOOD, P.G. Reassessment of the Tectonic Setting and Depositional Environment of the Early Permian Maules Creek Coal Measures, Gunnedah Basin, N.S.W.
- JUN GARCES, B. and FLOOD, P.G. Alluvial Fan and Braided Stream Sedimentation Within the Late Triassic Tarong Basin, Southeast Queensland
- SLANSKY, J. Chemical Composition of Mineral Matter in Coals and the Sedimentary Environment
- SALTER, G.R. and SHARROCK, G.N./ Intruded Coal Seams at Bayswater No. 2 Open Cut, Muswellbrook - Their Effect on Coal Seams and Mining Conditions



MACKAY, J.B. and SNELLING, A.A.	The 1980 Mt St Helens Eruption: The Role of Volcanism in the Formation of Coal Beds (A Modern Analogue of Ancient Coal Measure Formation)
CREELMAN, R.A.	The Nature and Significance of Red Beds - A Review
MUMME, I.A. and McLAUGHLIN, R.	Characterization of the Dalton Earthquake of 4 July 1977 Using the Fast Fourier Transform
MOXON, N.T. and RICHARDSON, S.B.	Determination of the Oxidation Potential of Coal
McLELLAN, J., MOXON, N.T. and WARBROOKE, P.R.	The Effect of Time and Ash on the Laboratory Carbonization Properties of Coal
BATTINO, S., DOYLE, J.F. and TURNER, R.I.	Desorbable Gas Content of Coal Seams from Exploration Borecores
WARNE, S.St.J. and FRENCH, D.H.	Some Applications of Thermal Analysis to the Assessment of Oil Shale
BROCKWAY, D.J. and BORSARU, R.M.	The Migration in Bed Moist Coals
NORMAN, A.R. and BRANAGAN, D.F.	Sydney Faults: More Conundrums?
Eighteenth Excursion	Inspection of outcrops along Newcastle foreshore
	Inspection of outcrops around the Lochinvar Anticline
	Inspection of Drayton and Bayswater mines
	Inspection of Muswellbrook open cut mine

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NINETEENTH SYMPOSIUM

17,18 AND 19 MAY 1985

Author	Paper
HARRINGTON, H.J.	Terraine Analysis and the Sydney Basin
MUNRO, S. and CARVOR, P.	Data Processing Problems in the Offshore Sydney Basin
DICKINS, J.M.	Late Palaeozoic and Early Mesozoic "Orogeny" in Eastern Australia
ELLISTON, J. (Keynote Address)	Macro-Molecular Interactions in Particulate Systems, a Significant Advance in the Granite Problem
CREASEY, J.W. and HUNTINGTON, J.F.	Lineament Patterns of the Sydney Basin - An Overview
CUDAHY, T., POWELL, McA.C. and CREASEY, J.W.	Fracture Patterns of the Southern Sydney Basin and the Relationship to Basement Structural Trends
NORMAN, A.R. and CREASEY, J.W.	Structural Analysis of the Ku-Ring-Gai Berowra Area
MOELLE, K.H.R. and CHAPPELL, B.A.	The Effect of Primary Anisotropies on the Formation of Joint Systems in Some Rocks of the Sydney Basin
GLEESON, J.	Geological Aspects of Water and Wastewater Structures in the Newcastle Coal Measures
SULLIVAN, T.	The Impact of Sedimentology on Geotechnical Engineering - A Case Study
MUMME, I. and McLAUGHLIN, I.	Computation of the Response Spectra for the Dalton Earthquake of 4th July 1977
ARDITTO, P.A.	Hummocky Cros-Stratification as an Environmental Indicator in the Late Permian Shoalhaven Group, Southern Sydney Basin
LENNOX, M. and WILCOCK, S.	Stratigraphy of the Gloucester Basin

- HALL, R. and WOOTTON, P. On Current Geological Studies of the Wittingham Coal Measures
- UREN, R.E. The Margin of a Marine Incursion in the Wittingham Coal Measures
- SHEEHAN, J. and WOOTTON, P. Over the Lochinvar Dome!
- BROWN, K. and PRESTON, B. Recommended Revision of Tomago Coal Measure Stratigraphy
- BEESTON, J.W. Permian Coal-Forming Floras: The Truth of the (Plant) Matter
- BARTLETT, K.E. and MOELLE, K.H.R. On the Occurrence of Unusual Geological Features in the Greta Seam at Aberdare North Colliery
- HANES, J. The Application of Geophysical Logging of Boreholes to the Geotechnical Evaluation of Underground Mining - A Case Study
- BRADLEY, G.M., YOO, E.K. and WEST, P. Geological Mapping at Rylstone to Assist Coal Mine Planning
- EDWARDS, J. The Effects and Mechanisms of Floorheave as Observed in the Southern Newcastle Coalfield
- GIEDL, J. Subsidence Hazard Assessment Relating to Abandoned Coal Mines: Wonthaggi Region of SW-Gippsland, Victoria
- MARTIN, D.J. Depositional Environments and Igneous Intrusions
- WALTHO, A.E. and WARD, C.R. In-Field Recording of Lithologic Data in Coal Measures by Portable Computer Systems
- BROWN, K., DIESSEL, C.F.K. and MCHUGH, E.A. New Developments in the Fluorometry of Coking Coal
- HUTTON, A. and JONES, B.G. The Woonona Seam - A Reappraisal
- SLANSKY, J. and BARRON, L.M. The  $TiO_2/Al_2O_3$  Ratio in New South Wales Coals and its Interpretative Value
- BRIGGS, D. Age of the Late Palaeozoic Glaciations of Central Eastern New South Wales

WARBROOKE, P.R.	Thermal Metamorphism of Coal Adjacent Dykes in the Newcastle Coalfield
DRAPER, J.J. and BALFE, P.E.	Late Permian Stratigraphy - Western Bowen Basin, Queensland
SPELLING, A. and MacKAY, J.	Evidence for Catastrophic Deposition of Coal Seams and Sediments of the Newcastle Coal Measures
Nineteenth Excursion	Inspection of Tomago Coal Measures

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TWENTIETH SYMPOSIUM

15,16, 17 AND 18 MAY 1986

Author	Paper
WEST, P.H., YOO, E.K. and BRADLEY, G.M.	The Sydney and Gunnedah Basins - A Reappraisal
ETHERIDGE, L.T.	New Data on the Structural Style and Subsurface Geology of the Bellata Area, Surat/Gunnedah- Bowen Basins
BACON, C.A.	The Coal Resources of Tasmania
BLACK, P. (Keynote Address)	New Zealand's Coalfields, Their Geology, Petrology and Inorganic Geochemistry
HILL, M.	The Structure and Sedimentation of the Northern Gunnedah Basin
THOMSON, S.	Early Permian Sedimentation Patterns in the West Gunnedah Sub-Basin
DIESSEL, C.F.K.	On the Relationships Between Coal Facies and Depositional Environments
WARBROOKE, P.R. and ROACH, M.J.	The Relationship Between Seam Splitting, Coal Forming Environments and Coal Properties in the Newcastle Coal Measures
WEBER, C.R.	Coal Exploration by the New South Wales Electricity Commission
BOCKING, M.A. and HOWES, M.S.	The Geology and Coal Deposits in the Wyong Region
DICKINS, J.M.	Late Palaeozoic and Early Mesozoic "Orogeny" in Eastern Australia
CHAPPELL, B.A. and MOELLE, K.H.R.	Tunnel Boring or Blasting in Coal Measure Strata and Triassic Rocks of the Sydney Basin
SEEDSMAN, R.	Claystones of the Newcastle Coal Measures - Engineering Aspects

- RIGBY, R. and MOELLE, K.H.R.    Reactivation of an Ancient Land-Slip Near Wallsend, N.S.W.
- JOHNSTONE, M.A. and  
MOELLE, K.H.R.    Engineering Geology Aspects of the Main North Headings at Ulan No 2 Colliery
- LAMBERT, M.F. and  
MOELLE, K.H.R.    Road Maintenance Problems in Some Lithological Units of the Newcastle Coal Measures
- MUMME, I.A. and  
McLAUGHLIN, R.    The El Centro Earthquake and its Relevance to Earthquake Studies in the Sydney Basin Region
- POOLE, G.R.    Columnar Jointing in Hawkesbury Sandstone
- CREELMAN, R.A.    QEM\*SEM (Quantitative Evaluation of Materials by Scanning Electron Microscope): A New Tool for Assessing Mineral Matter in Coal, and the Ash Products of Coal Combustion
- NCHUGH, E.A.    The Influence of Oxidation on the Fluorescence Properties of Coking Coals
- DIESSEL, C.F.K.    The Correlation Between Microfluorescence and Carbonisation Properties of Coals
- COIN, C.D.A.    Fusile Semi-Inertinite In Australian Coking Coals
- BATTINO, S. and DOYLE, J.F.    Strata Gas Emissions from Surface Boreholes at Appin Colliery
- DOYLE, J.F. and HUTTON, A.C.    The Pioneer Kerosene Oil Shale Works Mt Kembla: A Critical Review
- SHAFTO, G.R.    Syndax 3 - A New Form of Polycrystalline Diamond to Revolutionise Core Drilling
- TOMLINSON, P.N.    New Developments in Syndrill Polycrystalline Diamond Drills for the Petroleum and Mining Industries

MASON, D.R. and FRENCH, D.

Comparative Mineralogy of  
Metamorphic Inclusions in  
Basaltic Dykes from Black Jack  
and Newcastle Coal Measures

WILLIAMS, R.J. and  
BACON, C.A.

Geological Investigations at  
Duncan Colliery, Tasmania

Twentieth Excursion

Engineering Geological Aspects in  
the Newcastle and Lake Macquarie  
area

Coal Measure Sedimentation at  
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Geology of the Lower Hunter  
Valley

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TWENTY FIRST SYMPOSIUM

10-12 APRIL 1987

Author	Paper
WARBROOKE, P.R.	Depositional and Chemical Environments in Permian Coal Forming Swamps from the Newcastle Area
ARDITTO, P.A.	Eustacy, Sequence Stratigraphic Analysis and Peat Formation: A Model for Widespread Late Permian Coal Deposition in the Sydney Basin, N.S.W.
MOULE, K.J., PETERSON, M.S. and WEBSTER, V.J.	Latest International Trends in Applying Computer Based Techniques to the Prediction of Coal Quality
ALPERN, B. (Keynote Address)	Some Reflections on Coal Petrology and Coal Classification
AGRALI, B.	Stone-Rolls in the Bulli Seam - New Facts Versus Theories
BEESTON, J.W.	A Micrinite Accumulation in the Bandanna Formation, Bowen Basin, Queensland
HUTTON, A.C.	Joadja - Does Anything Ever Change?
LIU, S.Y. and TAYLOR, G.H.	Liptodetrinite of Algal Origin in Inertinite-Rich Coals
DIESSEL, C.F.K.	The Distribution of Inertinite Reflectance in Relation to Coal Rank
McMAUGH, W.J.	New Light on Coking Via Greta Aberdare Coal
GALLIGAN, A.G.	N.S.W. Department of Mineral Resources Structure and Activities
STODDART, F. and WOOD, J.	Geological Data Collection Using a Portable Infield Microcomputer



- MILLER, D.R. and HUNTINGTON, J. Portable Field Data Entry Computer Systems: A Review of Hardware and Software
- POOLE, G.R. and DOYLE, J.F. Nebo Colliery: The Application of EM to Mine Planning
- ARDITTO, P.A. Well Log and Seismic Sequence Stratigraphic Analysis of the Late Permian Succession in the Southern Sydney Basin: Implications for Hydrocarbon Exploration
- HERBERT, C. Petroleum Prospectivity in the Sydney Basin
- HAMILTON, D.A., GALLOWAY, W.E. and REYNOLDS, S.A. Depositional Systems of the Narrabeen Group
- BAMBERRY, W.J. and DOYLE, R.P. A Tuffaceous Origin for the Burragorang Claystone Member and its Lateral Equivalents
- BAILEY, J.G. Natural Zeolites in the Northern Tamworth Belt
- BRIGGS, D.J.C. Permian Productid Zones of New South Wales
- DOYLE, J.F. and POOLE, G.R. Cordeaux Colliery: An In-Seam Seismic Success
- TILL, V.S. Coal Quality from Geophysical Logs - Methods and Ideas
- MUMME, I.A. Some Useful Nuclear Techniques for Deriving Important Characteristics of Coal Deposits During the Exploration Phase
- BRITTEN, R.A. Distinctive Environmental Sequences within the Tomago Coal Measures
- BRANAGAN, D.F. Gully-Fill Deposits in the Blue Mountains, New South Wales
- BROWNLOW, J.W. The New England Connection: Correlation and Contrast across the Hunter-Mooki Fault System

- ENGEL, B.A. and MORRIS, L.N. An Interpretation of the  
Deformational History of the  
Northern Margin of the Sydney  
Basin
- HAMMOND, R. and MALLETT, C.W. A Tectonic Framework for Coal  
Measure Deformation in the  
Southern Bowen Basin
- Twenty First Excursion Sedimentology of the Waratah  
Sandstone and Coal Measure  
Sediments

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TWENTY SECOND SYMPOSIUM

15-17 APRIL 1988

Author	Paper
MALLETT, C.W., HAMMOND, R.L. and SULLIVAN, T.D.	The Implications for the Sydney Basin of Upper Crustal Extension in the Bowen Basin
LEITCH, E.C., MORRIS, P.A. Significance and HAMILTON, .S.	The Nature and Tectonic of Early Permian Volcanic Rocks from the Gunnedah Basin and the Southern Part of the New England Fold Belt
DIESSEL, C.F.K.	A Vertical Sedimentological Profile Through the Upper Carboniferous Coal Measures of the Ruhr Basin, Germany
McINTOSH, J.L. (Keynote Address)	Geology, Geologists and This Nation's Future
HAMILTON, L. and PATTISON, C.	Comparison of the Style of Igneous Intrusions in the Sydney and Bowen Basins
BOCKING, M., HOWES, M. and WEBER, C.	Palaeochannel Development in the Moon Island Beach Sub-Group of the Newcastle Coal Measures
BAI, G.P.	Diagenesis of the Sandstones in the Narrabeen Group
JIAN, F.X. and WARD, C.R.	Triassic Depositional Susters in the Gunnedah Basin
BRAKEL, A.T. and TOTTERDELL, J.M.	The Late Permian Palaeogeography of the Australian Continent
DICKINS, J.M.	The World Significance of the Hunter-Bowen (Indosinian) Orogenic Phase
MOELLE, K.H.R. and BRANAGAN, D.F.	Thrust Faulting at Freeman's Waterholes
SEEDSMAN, R.	Roof and Floor Instability with the Awaba Tuff

- BOGACZ, W. and BOYD, G.L.      Structural Characteristics of the Sedan Coal Deposit: An Example of Tectonic Analysis of Drill Cores for Geotechnical Purposes
- FRANCIS, C.L. and SUMMERELL, S.J.      The Geotechnical Investigation for the F3 Freeway North of Palmers Road: Site Geology and Investigation Techniques
- LI, G. and MOELLE, K.H.R.      Crack Formation After Cyclic Loading of Anisotropic Sedimentary Rocks
- SMITH, J.V.      Structure and Engineering Implications of Offset Dykes of the Sydney Basin
- BRANAGAN, D.F., MILLS, K.J. and NORMAN, A.R.      Sydney Faults: Facts and Fantasies
- LEE, G.      Tallawang Magnetite - A Case History Review
- MUMME, I.A.      The Dispersion of Conservative and Non-Conservative Pollutants in a Tidal Estuary
- SMITH, V.      Environmental and Geological Constraints to Sand and Gravel Extraction in the Peel and Cockburn Rivers, Tamworth Region
- PATERSON, I.B.L.      Sydney Regional Environmental Plan No. 9 - Management of Extractive Resources in the Sydney Region
- BOGACZ, W. and KIVIOR, I.      Tectogenetic Aspects of the Telford Basin, Leigh Creek Coalfield, South Australia
- ADAMSON, C. and MOELLE, K.H.R.      'Joint Fillings' in some Permian and Triassic Rocks of the Sydney Basin
- STASINOWSKY, W., POOLE, G. BARTO, C. and LAMB, P.      Aeromagnetics over the Southern Coalfields
- BAILEY, J.      A Char Morphology Classification with Applications to Coal Combustion
- SAPPAL, K.K.      Petrography of Certain Gondwana Coals of Australia and India

POSTER PAPERS

SMITH, V.

The Role of Geologists in  
Environmental Planning in NSW

BRAKEL, A.T. and  
TOTTEDELL, J.M.

BMR-APIRA Phanerozoic  
Palaeogeography of Australia  
Project

THORNTON, M.

The Queensland Department of  
Mines Computerised Field Mapping  
System

WALSH, I.

The Bellata DDH 1 Petroleum  
Stratigraphic Well, Narrabri-  
Moree District

Twenty Second Excursion

The Redhead Conglomerate

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TWENTY THIRD SYMPOSIUM

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GIBLING, M. (Keynote Address)	Late Paleozoic Drainage of the Appalachian Orogen: Evidence from the Coal Basins of Atlantic Canada
FIELDING, C.R.	Controls on Marine Sediment Deposition in the Southern Bowen Basin, Qld
BRIGGS, D.J.C.	Can Macropalaeontologists, Palynologists and Sequence Stratigraphers Ever Agree on Eastern Australian Permian Correlations?
GLEN, R.A. and BECKETT, J.	Coal in a Trust Belt: The Hunter Coalfield, N.S.W.
HUTTON, A.C., FERGUSON, C.L. and JONES, B.G.	Landslip in the Northern Illawarra Coalfield
LOHE, E.M. and McLENNAN, T.	Structural Setting of Hunter Valley Coalmines - A Regional Review
SHAW, S.E., FLOOD, R.H. LANGWORTHY, P.J.	Age and Association of the Rylstone Volcanics: New Isotopic Evidence
FALKNER, A.J. and FIELDING, C.R.	Geometrical Modelling of Alluvial and Fluvio-Deltaic Sequences from the Bowen Basin
POOLE, G.R. and DOWNEY, M.A.	Predicting Stress Using In-Seam Seismic
BAMBERRY, W., HUTTON, A. and JONES, B.	Depositional Systems of the Illawarra Coal Measures, Southern Sydney Basin
HATHERLY, P., EVANS, B. REICH, S. and POOLE, G.	Seismic Reflections Surveying for Detailed Coal Seam Mapping
HUTTON, A.C.	When Are Type Sections Not Type Sections?
HANES, J., MADDOCKS, P.J. and POOLE, G.R.	High Resolution Seismic for Mine Planning

- STUTCHBURY, R. The Early Permian Pebbly Beach Formation: Deposition in a Cold Climate
- WARNE, M.St.J. Predicting the Amount of Organic Pollutants that will Bind to Sediments: Application in Environmental Geology
- DIESSEL, C.F., BOYD, R. and WARBROOKE, P. The Waratah Sandstone: Wave/Tide Dominated Barrier Beach
- TURNER, G. and YELF, R. Ground Radar in Coal Mines
- AGRALI, B. Bricks from Coalwash - The South East Experience
- AGNEW, D. and BAYLEY, K. A Geophysical Correlation of the Lower Illawarra Coal Measures between Ulan and Other Areas in the Western Coalfield of N.S.W.
- WARNE, M.St.J. Iron Solubilisation at Tomago Sandbeds Associated with Sandmining: A Proposed Mechanism
- ENEVER, J.R., MALLET, C. and LOHE, E. Summary of the In-Situ Stress State Derived from the Direct Stress Measurements in the Sydney Basin, and the Relationship to Major Structure
- QURESHI, I.R. and MILLER, L.V. A Geophysical Study of the Ben Bullen Plutonic Suite and its Relationship with the Origin of the Sydney Basin
- MUMME, I.A. A Useful Non-Destructive Method for Deriving Ash in Coal and its Implications for Evaluating Washability Characteristics
- RAWSON, A. Fault-Angle Basins of the Lapstone Structural Complex - Geomorphological Evidence for Neotectonism
- AGRON-OLSHINA, N., HO-TUN, E. GOTTLIEB, P., CREELMAN, R. and SUTHERLAND, D. Progress in the Study of Coal, Coal Mineral Matter and Fly Ash Using QEM\*SEM
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- BOGACZ, W. Structural Analysis in Mine  
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- HALL, K.N., and COIN, C.D.A. Laser Heating of Coals to Determine  
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- MILLS, K., MOELLE, K.  
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- BAILEY, J.G. and TATE, A.G. Understanding and Modelling Coal  
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- SHEPHERD, J. Behaviour of Some Faults in  
Sydney Basin Coal Seams
- TRUONG, D. and WILLIAMS, R.J. Gas Content and Composition of  
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- POSTER PAPERS
- MAXWELL, S. Characterisation of Dykes in the  
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- FIELDING, C.R. A Facies Analysis of the  
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- HATHERLEY, P. Coal Seam Structural Predictions  
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- IVES, M. Computer Demonstration of the  
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- ROBERTS, F.I. and  
LOUGHNAN, F.C. Composition of Bentonite from the  
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- SANDERS, R. Getting the Most Out of Your Coal  
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- VAN MOORT, J.C. The Use of EPR Powder Spectra for  
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A Simple Technique for Predicting  
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Twenty Third Excursion

Merewether, Burwood Beach, Little  
Redhead

ADVANCES IN THE STUDY OF THE SYDNEY BASIN

TWENTY FOURTH SYMPOSIUM

23, 24 MARCH, 1990

Author	Paper
McLENNAN, T.P.T. and LOHE, E.M.	Structural Elements of the Hunter Coalfield: A Preliminary Assessment
HUTTON, A.	Geophysical logs and correlation in the Southern Sydney Basin
COLLINS, W.J.	A Reinterpretation of Permian Tectonism in the Sydney Basin and Southern New England Fold Belt
HANES, J. and MADDOCKS. P.	Application of High Resolution Seismic Predictions to Mining - A Case History
DIESSEL, C.F.K.	Marine Influence on Coal Seams
MAY, G. and PAUL, A.B.	The Application of Bore Core Seam Desorption Data to Mine Planning in Multi-Seam Environments
FALKNER, A. and FIELDING, C.R.	German Creek Formation and Moranbah Coal Measures A Transition from Marine Shelf to Upper Delta Plain
HILL, M.B.L. and ARMSTRONG, M.	Coal Seam Methane. Problems in Determination, Administration and Utilisation
JENKINS, R.	Aspects of the Lower Permian Sequences in the Manning River Area and their Tectonic Significance
WILKINS, R.W.T., WILMSHURST, G., HLADKY, G. ELLACOTT, M.E. and BUCKINGHAM, C.	'RAMBOE' - A Thermal Maturity Technique for Oil Exploration based on the Raman and Fluorescence Properties of Coal Macerals
HATHERLY, P. and POOLE, G.	Progress in Three-Dimensional Seismic Surveying, Appin Area
BAI, G.P., HAMILTON, P.J. EADINGTON, P.J. and KEENE, J.B.	Isotopic and Fluid Inclusion Studies of Fluid Flow History in the Narrabeen Sandstone

- DOYLE, J.E., NEWLAND, A.R.  
and GRITTO, R. The Application of Cross Hole  
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(ISS) in the detection of Old  
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- BRAYBROOKE, J. Some Geotechnical Phenomena  
Related to High Stresses in the  
Hawkesbury Sandstone
- HATHERLY, P. and WON, G. Geophysical Detection of Old Mine  
Workings
- BRANAGAN, D.F. and  
MILLS, K.J. Some Newly Exposed Faults in the  
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- DENHAM, D. and McCUE, K.  
(Keynote Address) The 1989 Newcastle Earthquake and  
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- HOPGOOD, J. The Newcastle Earthquake
- DEAN-JONES, G.,  
BRANAGAN, D. and  
MOELLE, K.H.R. Engineering Geological  
Considerations Subsequent to the  
Newcastle Earthquake
- RYNN, J. Earthquake Risk in Eastern  
Australia - A Lesson From  
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- BRENNA, E. Urban Geology
- YU, G., VOZELL, K. and  
DURNEY, D.W. P-Wave Velocity in a Sydney Basin  
Coal: Dependence on Confining  
Pressure and water Saturation
- MUMME, I. Damped co-oscillating tide theory  
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Calculation of the Eddy  
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- BRAYBROOKE, J., CARR, R.J.  
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in the Lower Hunter Region  
Suitable for Marine and River  
Works
- LOUGHRAN, R.J., ELLIOTT, G.L.  
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- LI, G. A SEM Study of the Conchoidal  
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- CROZIER, P.J. Structural Trends in the Upper  
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- BAILEY, J. Image Analysis of Char from  
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ROBERTS, F.I. and  
LOUGHNAN, F.C.

Exhalative minerals derived from  
Coal and Associated Kaolinitic  
Strata at Burning Mountain,  
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THOMPSON, S.

The Radio Imaging Method - Cases  
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WARD, C.R., CROUCH, A.  
PANICH, D. and SCHALLER, S.

Gas Ignitability by Frictional  
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QURESHI, I., SPENCER, R.A.  
and TYNE, E.D.

A Geophysical Study of the  
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JONES, S.R., CARR, R.J.,  
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Physical and Chemical  
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Twenty Fourth Excursion

Inspection of Earthquake Affected  
Areas

ADVANCES IN THE STUDY OF THE SYDNEY BASIN

TWENTY FIFTH SYMPOSIUM

12,13,14 APRIL 1991

Author	Paper
DAY, A.A.	Geological Interpretation of a Gravity Survey of the Newcastle Region, With Special Reference to the 1989 Earthquake
SEESDMAN, R.W. and COLWELL, M.	Improving the Compatibility Between Longwall Coal Mining and Residential Development
LOHE, E.M. and McLENNEHAN, T.P.T.	Overview of the Structural Fabrics of the Sydney Basin and a Comparison with the Bowen Basin
EVANS, P.R. and MIGLIUCCI, A.	Evolution of the Sydney Basin During the Permian as a Foreland Basin to the Currarong and New England Orogens
BRIGGS, D.J.C.	Correlation Charts for the Permian of the Sydney-Bowen Basin and New England Orogen
ROBERTS, J., CLAOUE-LONG, J.C. and JONES, P.J.	Calibration of the Carboniferous and Early Permian of the Southern New England Orogen by Shrimp Ion Microprobe Zircon Analyses
SHAW, S.E., CONAGHAN, P.J. and FLOOD, R.H.	Late Permian and Triassic Igneous Activity in the New England Batholith and Contemporaneous Tephra in the Sydney and Gunnedah Basins
VICKERS, M.D.	The Werrie Volcanics, Wingen NSW: Geology, Geochemistry and Tectonic Significance
LEITCH, E.C., and SKILBECK, C.G.	Early Permian Volcanism and Early Permian Facies Belts at the Base of the Gunnedah Basin, in the Northern Sydney Basin and in the Southern Part of the New England Fold Belt
MORRIS, W.	The Coffs Harbour Block - Not an Accretionary Prism

- MUMME, I. The Effect of Earthquakes on Underground Openings
- WILLEY, P. Alternative Ways of Displaying and Analysing Subsidence Data
- HANES, J. Some Challenges Facing Geologists in Underground Coal Mining
- DOYLE, R. RIM Surveys
- THOMPSON, S. Practical Applications of the RIM Technique from Boreholes
- STASINOWSKY, W.D. Seismic Resolution and Small Fault Detection Limits
- SCHMIDT, P.W. and ANDERSON, J.C. Orientation of Drill Core Using Palaeomagnetism in Coal Exploration
- MIGLIUCCI, A. and EVANS, P.R. Clay Models of the Northern Sydney Basin and Southern Tamworth Belt, N>S.W.
- TADROS, N.Z. and HAMILTON, D.S. Utility of Coal Seams as Sequence Boundaries in the Non-Marine Upper Black Jack Formation, Gunnedah Basin
- MCDONALD, S.H. and SKILBECK, C.G. Marine Facies and Their Distribution, Permian Porcupine and Watermark Formation, Gunnedah Basin
- WILLEY, E.C. The Geology of the Mount View - Mount Bright Inlier and Adjacent Rocks, Pokolbin, N.S.W.
- KASSAN, J. and FIELDING, C.R. Triassic Depositional Environments in the Southwest Bowen Basin
- BRANAGAN, D.F. Geology of the Pymont-Ultimo Area, Sydney
- MURRAY-WALLACE, C.V. Quaternary Correlations Using Amino Acid Racemisation: The Sydney Basin Province in a Global Context
- FLOOD, P.G. Natural Zeolite Exploration Using the "Geoautoclave Process" Model for Their Formation

- FRASER, W.B. The Geological Control of the Spatial Distribution of Aboriginal Sites in the Royal National Park - Initial Findings
- HITCHCOCK, P.W. and CARR, R.J. The Electrical Conductivity Probe: A New Tool for Groundwater Contamination and Salinity Measurement
- LI, G. and MOELLE, K.H.R. Fracture Behaviour of Sandstones - A Comparison of Samples from the Sydney and Bowen Basins
- EVANS, P.R. Early Permian Palaeogeography of the Southern Sydney Basin
- AGRALI, B. From Bore Cores and Strip Samples to Coal Processing Plant Scheduling - A Practical Approach
- FALKNER, A.J., FIELDING, C.R. and PHILLIPS, R. Applications of Sedimentology to Longwall Underground Coal Mining
- TAYLOR, G.H. Reflections on Reflectance
- BAILEY, J. Combustion Characteristics and Char Evolution of Vitrinite and Intertinite-Rich Coal Concentrates
- WILMSHURST, J.R., DIESSEL, C.F.K., ELLACOTT, M.V., HLADKY, G. and BUCKINGHAM, C.P. A New Instrumental Method for the Assessment of Coking Coal
- WILKINS, R.W.T., ZHONG, N., ELLACOTT, M.V. and BUCKINGHAM, C.P. The Suppression of Vitrinite Reflectance in the Greta and Pelton Coals: A Fluorescence Alteration Study
- SMYTH, M. Coal Petrology, Natural Fractures and Methane Drainage of Sydney Basin Coals
- DIESSEL, C.F.K. The 1991 ICCP Ring Analysis - An Interesting Comparison of Two Coals and Their Cokes

Twenty Fifth Excursion